

## CLAIMS

### WHAT IS CLAIMED IS:

- 5 *cl. 3/0* 1. A linear motor <sup>14</sup> comprising:  
a moving member <sup>48</sup> comprising a core made of a magnetic material and coils  
wound around the core;  
a stationary member, said moving member being slidably engaged with the  
stationary member; and  
10 a heat dissipation portion;  
wherein at least a part of the heat dissipation portion touches the core.
- 15 2. The linear motor of claim 1, wherein the heat dissipation portion pierces  
through the core of the moving member.
- 20 3. The linear motor of claim 1, wherein the heat dissipation portion pierces  
through a center of the core of the moving member and at one end of the heat dissipation  
portion is formed a heat dissipation fin.
- 25 *cl. 221* 4. An apparatus for feeding electronic components comprising:  
at least one unit base <sup>12</sup> capable of carrying at least one component feeding unit  
which supplies electronic components loaded in a carrier tape at a predetermined pitch to  
a component pick-up position;  
a platen <sup>11</sup> for sliding the unit base thereon; and  
a linear motor <sup>14</sup> comprising at least one stationary member mounted on the platen  
and a moving member <sup>48</sup> mounted on the unit base, said moving member comprising a core  
made of a magnetic material, coils wound around the core and a heat dissipation portion,  
at least a part of said heat dissipation portion touching the core.
- 30 5. The apparatus for feeding electronic components of claim 4, wherein the heat  
dissipation portion pierces through the core of the moving member.

6. The apparatus for feeding electronic components of claim 4, wherein the heat dissipation portion pierces through the center of the core of the moving member and a heat dissipation fin is formed at one end of the heat dissipation portion.

5 7. An apparatus for feeding electronic components comprising:  
at least one unit base <sup>12</sup> capable of carrying at least one component feeding unit;  
a platen <sup>11</sup> for sliding the unit base thereon; and  
a linear motor <sup>14</sup> comprising at least one stationary member mounted on the platen  
and a moving member <sup>48</sup> mounted on the unit base;  
10 wherein a heat dissipation <sup>71</sup> portion is formed on the unit base for dissipating the  
heat in the moving member.

*perfects the  
linear motor!*

8. The apparatus for feeding electronic components of claim 7, wherein the heat dissipation portion comprises a heat dissipation fin which forms a unitary unit with the unit base.

15 9. An apparatus for feeding electronic components comprising:  
at least one unit base <sup>12</sup> capable of carrying at least one component feeding unit;  
a platen <sup>11</sup> for sliding the unit base thereon; and  
20 a linear motor <sup>14</sup> comprising at least one stationary member mounted on the platen  
through a supporting base for the stationary member and a moving member mounted on  
the unit base;

wherein the air from a ventilator is lead to an air supplying passage formed within  
the platen and blown to the moving member through an air exhaust port formed in the  
25 platen for cooling the moving member.

*perfects the  
linear motor*

30 10. An apparatus for feeding electronic components comprising:  
at least one unit base <sup>12</sup> capable of carrying at least one component feeding unit  
which supplies electronic components loaded in a carrier tape at a predetermined pitch to  
a component pick-up position;  
a platen <sup>11</sup> for sliding the unit base thereon; <sup>12</sup>  
a linear motor <sup>14</sup> comprising at least one stationary member mounted on the platen  
and a moving member mounted on the unit base;

and

handling means only

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